

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
14072-035001Application No.
10/690,774**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Gillis et al.Filing Date
October 22, 2003Group Art Unit
1616**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2002/0192298 A1	12/19/02	Burrell et al.			
	AB	2002/0051824 A1	05/02/02	Burrell et al.			
	AC	2002/0045049	04/18/02	Madsen			
	AD	6,365,130	04/02/02	Barry et al.			
	AE	2002/0025344	02/28/02	Newman et al.			
	AF	2002/0016585	02/07/02	Sachse			
	AG	2002/0001628	01/03/02	Ito			
	AH	6,333,093	12/25/01	Burrell et al.			
	AI	6,294,186	09/25/01	Beerse et al.			
	AJ	6,277,169	08/21/01	Hampden-Smith et al.			
	AK	2001/0010016	07/26/01	Modak et al.			
	AL	6,258,385	07/10/01	Antelman			
	AM	6,238,686	05/29/01	Burrell et al.			
	AN	6,224,898	05/01/01	Balogh et al.			
	AO	6,201,164	03/13/01	Wulff et al.			
	AP	6,197,351	03/06/01	Neuwirth			
	AQ	6,187,290	02/13/01	Gilchrist et al.			
	AR	6,165,440	12/26/00	Esenaliev			
	AS	6,126,931	10/03/00	Sawan et al.			
	AT	6,123,925	09/26/00	Barry et al.			
	AU	6,096,002	08/01/00	Landau			
	AV	6,071,543	06/06/00	Thornfeldt			
	AW	6,071,541	06/06/00	Murad			
	AX	6,022,547	02/08/00	Herb et al.			
	AY	6,017,553	01/25/00	Burrell et al.			
	AZ	6,013,050	01/11/00	Bellhouse et al.			
	AAA	6,010,478	01/04/00	Bellhouse et al.			



Examiner Signature


Date Considered

6/23/06

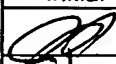

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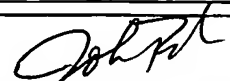
U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ABB	5,985,308	11/16/99	Burrell et al.			
	ACC	5,981,822	11/09/99	Addison			
	ADD	5,958,440	09/28/99	Burrell et al.			
	AEE	5,945,032	08/31/99	Breitenbach et al.			
	AFF	5,899,880	05/04/99	Bellhouse et al.			
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	AHH	5,848,995	12/15/98	Walder			
	AII	5,837,275	11/17/98	Burrell et al.			
	AJJ	5,792,793	08/11/98	Oda et al.			
	AKK	5,770,258	06/23/98	Takizawa			
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	AMM	5,753,251	05/19/98	Burrell et al.			
	ANN	5,744,151	04/28/98	Capelli			
	AOO	5,681,575	10/28/97	Burrell et al.			
	APP	5,631,066	05/20/97	O'Brien			
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	ARR	5,569,207	10/29/96	Gisselberg et al.			
	ASS	5,563,132	10/08/96	Bodaness			
	ATT	5,534,288	07/09/96	Gruskin et al.			
	AUU	5,520,639	05/28/96	Peterson et al.			
	AVV	5,457,015	10/10/95	Boston			
	AWW	5,454,886	10/03/95	Burrell et al.			
	AXX	5,454,889	10/03/95	McNicol et al.			
	AYY	5,399,163	03/21/95	Peterson et al.			
	AZZ	5,383,851	01/24/95	McKinnon, Jr. et al.			
	AAAA	5,372,589	12/13/94	Davis			
	ABBB	5,369,155	11/29/94	Asmus			

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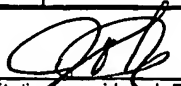
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	ACCC	Des. 349,958	08/23/94	Hollis et al.			
	ADDD	5,312,335	05/17/94	McKinnon et al.			
	AEEE	5,270,358	12/14/93	Asmus			
	AFFF	5,236,421	08/17/93	Becher			
	AGGG	5,143,717	09/01/92	Davis			
	AHHH	5,122,418	06/16/92	Nakane et al.			
	AIII	5,064,413	11/12/91	McKinnon et al.			
	AJJJ	5,019,096	05/28/91	Fox, Jr. et al.			
	AKKK	4,960,413	10/02/90	Sagar et al.			
	ALLL	4,952,411	08/28/90	Fox, Jr. et al.			
	AMMM	4,908,355	03/13/90	Gettings, et al.			
	ANNN	4,847,049	07/11/89	Yamamoto			
	AOOO	4,828,832	05/09/89	De Cuellar et al.			
	APPP	4,803,066	02/07/89	Edwards			
	AQQQ	4,790,824	12/13/88	Morrow et al.			
	ARRR	4,749,572	06/07/88	Ahari			
	ASSS	4,633,863	01/06/87	Filips et al.			
	ATTT	4,596,556	06/24/86	Morrow et al.			
	AUUU	4,581,028	04/08/86	Fox, Jr. et al.			
	AVVV	4,476,590	10/16/84	Scales et al.			
	AWWW	4,355,636	10/26/82	Oetjen et al.			
	AXXX	4,324,237	04/13/82	Buttaravoli			
	AYYY	4,059,105	11/22/77	Citruzzula et al.			
	AZZZ	3,918,446	11/11/75	Buttaravoli			
	AAAAA	3,800,792	04/02/74	McKnight et al.			
	ABBBB	3,757,786	09/11/73	Smith			

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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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P	ACCCC	02/085299 A2	10/31/02	WIPO				
	ADDDD	02/085384 A2	10/31/02	WIPO				
	AEEEE	02/085385 A2	10/31/02	WIPO				
	AFFFF	02/085386 A2	10/31/02	WIPO				
	AGGGG	02/085387 A2	10/31/02	WIPO				
	AHHHH	02/44625	06/06/02	WIPO				
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	AJJJJ	02/18699	03/07/02	WIPO				
	AKKKK	02/15698	02/28/02	WIPO				
	ALLLL	WO 02/09729 A2	02/07/02	WIPO				
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	AOOOO	CN1328827	01/02/02	CN (full document)				X
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	ATTTT	CN1322874	11/21/01	CN (full document)				X
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Foreign Patent Documents or Published Foreign Patent Applications								
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	AEEEEEE	01/49302	07/12/01	WIPO				
	AFFFFF	01/43788	06/21/01	WIPO				
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	AHHHHH	01/41774	06/14/01	WIPO				
	AIIIII	01/34686	05/17/01	WIPO				
	AJJJJJ	WO 01/26627	04/19/01	WIPO				
	AKKKKK	01/27365	04/19/01	WIPO				
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	AKKKKK	11116488	04/27/99	JP (full document)				X
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	MMMMM	11060493	03/02/99	JP (full document)				X
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	AOOOOO	2,242,033	01/03/99	CA				
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	AQQQQQ	98/41095	09/24/98	WIPO				
	ARRRRR	0780138	06/25/97	EP				
	ASSSSS	DE 195 41 735 A1	05/15/97	Germany (full document)			X	
	ATTTTT	DE 195 41 735 A1	05/15/97	Germany (full document)				X
	AUUUUU	WO 96/17595	06/13/96	WIPO				
	AVVVVV	0681841	11/15/95	EP				
	WWWWWW	95/13704	05/26/95	WIPO				
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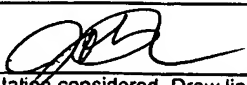
Foreign Patent Documents or Published Foreign Patent Applications								
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	AAAAAA	022309	12/06/90	IT (full document)				X
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	HHHHHH	0 378 147	07/18/90	EP				
	IIIIII	0 355 009	02/21/90	EP				
	AJJJJJ	WO 89/09054	10/05/89	WIPO				
	KKKKKK	3807944	09/21/89	DE (full document)				X
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	OOOOOO	87/07251	12/03/87	WIPO				
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	VVVVVV	2 073 024	10/14/81	UK				
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	ZZZZZZ	965,010	07/29/64	GB				
	AAAAAA	427,106	4/16/35	UK				
	BBBBBB	420,052	11/23/34	UK				

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	CCCCCC	Becker, Robert O. et al., "Treatment of Orthopaedic Infections with Electrically Generated Silver Ions," <i>The Journal of Bone and Joint Surgery, American</i> 60-A(7):871-881 (October 1978).
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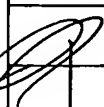

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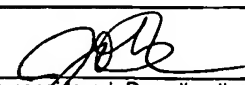
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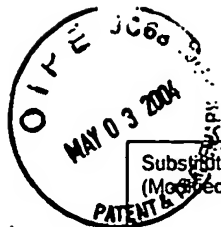
Examiner Initial	Desig. ID	Document
	DDDDDD	Berger, T.J., et al., "Electrically Generated Silver Ions: Quantitative Effects on Bacterial and Mammalian Cells," <i>Antimicrobial Agents and Chemotherapy</i> 357-358 (February 1976).
	EEEEEE	Burrell, et al. "Efficacy of Silver-Coated Dressings as Bacterial Barriers in a Rodent Burn Sepsis Model" <i>Wounds</i> 1999; 11(4): 64-71
	FFFFFF	Colmano, G., DVM, PhD, et al, Activation of Antibacterial Silver Coatings on Surgical Implants by Direct Current: Preliminary Studies in Rabbits," <i>Microbiology</i> 41(6):964-966 (1980) [Bracken Library, Queen's University, Kingston, Ontario]
	GGGGGG	Davis, C.P., et al., "Effects of Microamperage, Medium, and Bacterial Concentration on Iontophoretic Killing of Bacteria in Fluid," <i>Antimicrobial Agents and Chemotherapy</i> 442-447 (April 1989).
	HHHHHH	Deitch, Edwin A., et al., "Silver Nylon Cloth: In vitro and in vivo Evaluation of Antimicrobial Activity," <i>The Journal of Trauma</i> 27(3):301-304 (1987).
	IIIIIIII	Deitch, Edwin A., et al., "Silver-Nylon: A New Antimicrobial Agent," <i>Antimicrobial Agents and Chemotherapy</i> 356-359 (March 1983).
	AJJJJJJJ	Demling, et al., "The Role of Silver in Wound Healing: Effects of Silver on Wound Management," <i>Wounds</i> , Volume 13, Number 1, January/February 2001 Supplement A; pp. 5-14
	KKKKKK	Djokic et al., "An Electrochemical Analysis of Thin Silver Films Produced by Reactive Sputtering", <i>Journal of The Electrochemical Society</i> , 148 (3) C191-C196 (2001)
	LLLLLLL	Falcone, Alfred, E., D.D.S., M.D., et al., "Inhibitory Effects of Electrically Activated Silver Material on Cutaneous Wound Bacteria," <i>Plastic and Reconstructive Surgery</i> 455-459 (March 1986).
	MMMMMM	Grier, N., Ph.D., "Silver and Its Compounds" in "Antiseptics and Disinfectants 375-389 (1977). (S.S. Block, Lea and Febiger)
	NNNNNN	Hall, Richard, E., D.D.S., M.S., Ph.D., et al., "Inhibitory and Cidal Antimicrobial Actions of Electrically Generated Silver Ions," <i>J. Oral Maxillofac Surg.</i> , 45:779-784 (1987).
	OOOOOO	Kirsner, et al., "The Role of Silver in Wound Healing: Matrix Metalloproteinases in Normal and Impaired Wound Healing: A Potential Role of Nanocrystalline Silver," <i>Wounds</i> , Volume 13, Number 3, May/June 2001, Supplement C pp. 5-12
	PPPPPP	Liedberg, H., et al., "Silver Alloy Coated Catheters Reduce Catheter-Associated Bacteriuria," <i>Br. J. Urol.</i> 65(4):379-381 (April 1990).
	QQQQQQ	MacKeen et al., "Silver-Coated Nylon Fiber as an Antibacterial Agent," <i>Antimicrobial Agents and Chemotherapy</i> 31(1):93-99 (January 1987).
	RRRRRR	Olson et al., "Healing of Porcine Donor sites Covered with Silver-coated Dressings"* <i>Eur J Surg</i> 2000; 166: 486-489
	SSSSSS	Ovington, "The Role of Silver in Wound Healing: Why is Nanocrystalline Silver Superior? Nanocrystalline Silver: Where the Old and Familiar Meets a New Frontier," <i>Wounds</i> , Volume 13, Number 2, March/April 2001, Supplement B; pp. 5-10
	TTTTTT	Sant et al., "Morphology of Novel Antimicrobial Silver Films Deposited By Magnetron Sputtering" <i>Scripta Materiala</i> , Vol. 41, No. 12, pp. 1333-1339, November 19, 1999
	UUUUUU	Sant et al., "Novel duplex antimicrobial silver films deposited by magnetron sputtering", <i>Philosophical Magazine Letters</i> , 2000, Vol. 80, No. 4, 249-256
	VVVVVV	Shigemasa et al., "Applications of Chitin and Chitosan for Biomaterials" <i>Biotechnology & Genetic Engineering Reviews</i> Vol. 13 (14) pp. 383-420

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	WWWWW	Spadara, J.A., et al., "Silver Polymethyl Methacrylate Antibacterial Bone Cement," <i>Clinical Orthopaedics and Related Research</i> 143:266-270 (September 1979).
	XXXXXX	Spadaro, J.A., et al., "Antibacterial Effects of Silver Electrode," <i>IEEE, Eng., in Med. & Biol. Soc.</i> 215-218 (1981).
	YYYYYY	Thibodeau, E.A. et al., "Inhibition and Killing of Oral Bacteria by Silver Ions Generated with Low Intensity Direct Current," <i>Journal of Dental Research</i> 57(9-10):922-926 (1978).
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Examiner Signature 	Date Considered 6/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Sheet 1 of 1

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14072-035001	Application No. 10/690,774
	Applicant Gillis et al.		
	Filing Date October 22, 2003	Group Art Unit 1616	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6,720,006	04/13/04	Hanke et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AB							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AC	

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Substitute Disclosure Form (PTO-1449)

Sheet 1 of 1

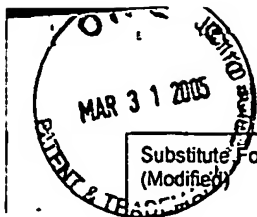
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		Filing Date October 22, 2003	Group Art Unit 1616

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,374,432	12/20/94	Fox et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AC	Database Derwent on West, 197331. Derwent Publication Ltd., Accession No. 1973: 42926U, DE 2200723 A. Fresenius Chemisc-Pharm abstract.

Examiner Signature 	Date Considered 6/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	WPIDS abstract 1966-11488F (1966).
	AR	WPIDS abstract 1989-312257 (1989).
	AS	Medline abstract, accession no. 96064219 (1996).
	AT	

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Substitute Form PTO-1449
(Modified)

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.
14072-035001

Application No.
10/690,774

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR § 1.98(b))

Applicant
Gillis et al.

Filing Date
October 22, 2003

Group Art Unit

16/16

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>AA</i>	AA	5,240,914	12-22-1992	Rubin			
<i>AB</i>	AB	5,275,827	07-30-1992	Spinelli et al.			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AC							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AD	

Examiner Signature

[Signature]

Date Considered

6/23/06

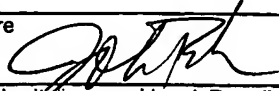
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		Filing Date October 22, 2003	Group Art Unit 1742 1616

U.S. Patent Documents							
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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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	AS	Williams, D., "Nanocrystalline metals: another opportunity for medical devices?" Medical Device Technology, Vol. 14(9), p 12 (pages 1-4 in the copy obtained via ProQuest), 2003.
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